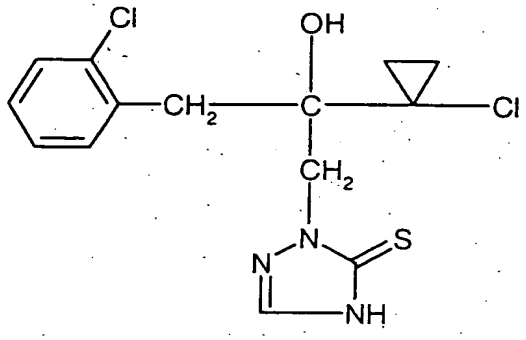
Patent Claims

1. Crystal form II of 2-[2-(1-chlorocyclopropyl)-3-(2-chlorophenyl)-2-hydroxypropyl]-2,4-dihydro-3H-1,2,4-triazole-3-thione of the formula



(A),

characterized by

a) peak maxima in the Raman spectrum at the following wave numbers [in cm^{-1}]

3220	1375	1101	876
3151	1351	1065	869
3063	1339	1052	849
3016	1324	1038	822
2927	1290	1032	796
1542	1220	1001	782
1476	1204	963	759
1455	1184	954	752
1445	1169	922	748
1424	1137	912	725
1407	1123	889	680

b) the following bond lengths [in Å] and bond angles [in °]

Bond	Length [Å]
N(1)-C(5)	1.350 (3)
N(1)-C(6)	1.454 (3)
C(3)-N(4)	1.360 (3)
S(5)-C(5)	1.689 (2)
O(7)-C(7)	1.433 (3)
C(7)-C(8)	1.539 (3)
C(9)-C(14)	1.393 (4)
Cl(10)-C(10)	1.743 (3)
C(11)-C(12)	1.384 (4)
C(13)-C(14)	1.391 (4)
C(15)-C(16)	1.490 (4)
C(16)-C(17)	1.521 (4)
N(1)-N(2)	1.377 (3)
N(2)-C(3)	1.301 (4)
N(4)-C(5)	1.361 (3)
C(6)-C(7)	1.533 (3)
C(7)-C(15)	1.536 (3)
C(8)-C(9)	1.515 (3)
C(9)-C(10)	1.395 (4)
C(10)-C(11)	1.382 (4)
C(12)-C(13)	1.379 (5)
Cl(15)-C(15)	1.773 (3)
C(15)-C(17)	1.503 (4)

Bonds	Angle [°]
C(5)-N(1)-N(2)	112.8 (2)
N(2)-N(1)-C(6)	120.6 (2)
N(2)-C(3)-N(4)	111.9 (2)
N(1)-C(5)-N(4)	103.6 (2)
N(4)-C(5)-S(5)	127.8 (2)
O(7)-C(7)-C(6)	104.8 (2)
C(6)-C(7)-C(15)	113.6 (2)
C(6)-C(7)-C(8)	109.9 (2)
C(9)-C(8)-C(7)	117.2 (2)
C(14)-C(9)-C(8)	119.6 (2)
C(11)-C(10)-C(9)	122.4 (2)
C(9)-C(10)-Cl(10)	120.1 (3)
C(13)-C(12)-C(11)	119.9 (3)
C(13)-C(14)-C(9)	121.9 (3)
C(16)-C(15)-C(7)	123.2 (2)
C(16)-C(15)-Cl(15)	115.7 (2)
C(7)-C(15)-Cl(15)	112.2 (2)
C(15)-C(17)-C(16)	59.0 (2)
C(5)-N(1)-C(6)	126.6 (2)
C(3)-N(2)-N(1)	103.5 (2)
C(3)-N(4)-C(5)	108.2 (2)
N(1)-C(5)-S(5)	128.5 (2)
N(1)-C(6)-C(7)	113.3 (2)
O(7)-C(7)-C(15)	108.9 (2)
O(7)-C(7)-C(8)	111.7 (2)
C(15)-C(7)-C(8)	108.1 (2)
C(14)-C(9)-C(10)	116.5 (2)
C(10)-C(9)-C(8)	123.9 (2)
C(11)-C(10)-Cl(10)	117.4 (2)
C(10)-C(11)-C(12)	119.5 (3)
C(12)-C(13)-C(14)	119.8 (3)
C(16)-C(15)-C(17)	61.1 (2)
C(17)-C(15)-C(7)	120.6 (2)
C(17)-C(15)-Cl(15)	115.1 (2)
C(15)-C(16)-C(17)	59.9 (2)

c) a unit cell having the following dimensions

a = 9.8927(8) Å	α = 90°
b = 9.5635 (8) Å	β = 92.651 (6)°
c = 16.4448 (10) Å	γ = 90°

d) a melting point of 138.3°C

and

e) a particle density of 1.471 Mg/m^3.

2. Process for preparing the crystal form II of the triazole derivative of the formula (A) according to Claim 1, characterized in that the crystal form I of this substance is treated in the presence of

- water and/or
- one or more aliphatic alcohols having 1 to 10 carbon atoms and/or
- one or more dialkyl ketones having 1 to 4 carbon atoms in each alkyl moiety and/or
- one or more alkyl alkylcarboxylates having 1 to 4 carbon atoms in each alkyl moiety

at temperatures between 0°C and 90°C.

3. Microbicidal compositions, characterized in that they comprise a triazole derivative of the formula (A) according to Claim 1 in the crystal form II, in addition to extenders and/or surfactants.

4. Use of crystal form II of the triazole derivative of the formula (A) according to Claim 1 for controlling unwanted microorganisms.

5. Method for controlling unwanted microorganisms, characterized in that crystal form II of the triazole derivative of the formula (A) according to Claim 1 is applied to the microorganisms and/or their habitat.

6. Process for preparing microbicidal compositions, characterized in that crystal form II of the triazole derivative of the formula (A) according to Claim 1 is mixed with extenders and/or surfactants.